

What is claimed is

1. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon on a separator for a fuel cell, the method
5 comprising the steps of projecting to a separator of a unit cell for forming the fuel cell a solid plating material comprised of core particles having a higher hardness than the separator and coated with a metal
10 having a high corrosion resistance and a low contact resistance against carbon so as to compulsorily deposit the metal coated on this solid plating material to the separator.

2. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in claim 1, wherein a projection
15 velocity of the solid plating material to the separator is 20 to 100 m/sec.

3. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in claim 1 or 2, wherein the
20 projection of the solid plating material to the separator is performed by a flow of dry air.

4. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in claim 1 or 2, wherein the
25 projection of the solid plating material is performed by a rotating impeller.

5. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in claim 1 or 2, wherein the
30 projection of the solid plating material is performed by a flow of water.

6. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in claim 1 or 2, wherein the
35 projection of the solid plating material is performed by a flow of inert gas.

7. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in any one of claims 1 to 6, wherein the core particles of the solid plating material have a
5 particle size of 30 to 300 μm , a true specific gravity of 2 to 15, and a hardness of 400/2000 Hv.

8. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in any one of claims 1 to 7, wherein
10 the core particles of the solid plating material are made of hard metal.

9. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in any one of claims 1 to 8, wherein
15 the metal having a high corrosion resistance and a low contact resistance against carbon to be coated on the core particles of the solid plating material is a single metal or an alloy.

10. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in any one of claims 1 to 9, wherein
20 the metal having a high corrosion resistance and a low contact resistance against carbon to be coated on the core particles of the solid plating material is at least one of gold, silver, copper, and nickel.

11. A method of depositing a metal having a high corrosion resistance and a low contact resistance against carbon as set forth in any one of claims 1 to 10, wherein
25 the carbon contact resistance value is not more than 20 $\text{m}\Omega\cdot\text{cm}^2$ at a contact pressure of at least 1 $\text{kg}\cdot\text{f}/\text{cm}^2$.
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